

ASHLAND/NSP LAKEFRONT SITE
OCTOBER 15, 2006 PROGRESS REPORT (No. 35)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764
USEPA ID# WISFN057952

This is the thirty-fifth progress report prepared in accordance with the Administrative Order on Consent (AOC) for the Ashland/NSP Lakefront Site, effective November 14, 2003. This report covers activities completed during September 2006. It is intended to meet the requirements described in Task 8 of the Statement of Work appended to the AOC.

Field Activities Completed

Free-Product Recovery System

The free-product (NAPL) recovery system operated continuously throughout September. A total of 65 gallons of free-product were recovered between August 31st and October 3rd, a collection rate of nearly two gallons per day. However, this rate was not uniform; nearly 29 gallons was collected between September 19th and 27th. The remaining intervals yielded a rate of slightly less than 1.5 gallons/day, consistent with the previous five months.

During this same September period, 23,300 gallons of effluent were treated and discharged to the sanitary sewer. Although this volume is elevated above the normal monthly recovery the last several months (16,000 – 18,000 gallons), this is about one-half of the volume recovered during August (44,700 gallons). Similarly, the fraction recovered from EW-4 (3,900 gallons) is also elevated, but significantly less than the August volume (8,500 gallons). These increased volumes are likely from above normal precipitation levels in the last two months, resulting in increased infiltration.

The liquid phase treatment system data indicated it continues to operate as designed. The monthly effluent sample for volatile organic compounds (VOCs) yielded a trace ("J" value – between the method and instrument detection limits) detection of methylene chloride, but quality control analysis confirms this measurement is a lab contaminant. A trace J value for naphthalene was also measured, but no other VOC detections were found. Quarterly samples for polycyclic aromatic hydrocarbons (PAHs) yielded J values for a few heavy molecular weight PAHs (benzo(a)pyrene, benzo(a)anthracene, etc.). Additionally, metals analyses yielded a measurement for phosphorous (0.007 mg/L) and copper (1.4J µg/L).

The air treatment system data confirm that replacing the suspected carbon drum corrected the problems measured the previous three months. No detections in any of the samples were measured.

A summary of the system monitoring data is included in Tables 1 - 5. Lab analysis reports for the system monitoring are included in the Appendix.

RI Activities

All RI field activities were completed during November 2005.

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Reporting Activities Completed

SITE Program

SITE team conference calls were convened on September 6th and 20th. As described in the previous (August) monthly report, the September 6th call proposed a tentative schedule for deployment of the injection program in mid-October. The September 20th call included the injection contractor to discuss his goals and objectives. The Tetra Tech draft Sampling and Analysis Plan/Quality Assurance Plan (SAP/QAP), originally planned for internal review on September 15th, was submitted on September 29th.

Subsequent SITE team calls were held on October 3rd and 5th to discuss the draft SAP/QAPP and program schedule. Following these calls, revisions were incorporated into a final draft document that was submitted for USEPA review and approval on October 10th. The tentative schedule at the time of this report includes mobilizing Tetra Tech's drilling contractor the week of November 6th; the injection program will begin the following week on November 13th.

Draft RI Report and Associated Documents

USEPA notified NSPW via email the week of September 20th requesting a meeting to discuss the Agencies' comments to the draft RI Report and Associated Documents (Human Health Risk Assessment, Baseline Ecological Risk Assessment, Sediment Stability Assessment). This notification was in response to NSPW's formal September 12, 2006 request for a schedule modification. The Agency indicated in it's notification that following the meeting, NSPW would be permitted approximately an additional two weeks to submit responses to the comments. The meeting was scheduled for October 12th in Madison.

Candidate Technologies and Testing Needs Technical Memorandum

As described in NSPW's September 12th request for a schedule modification, NSPW submitted to USEPA its Candidate Technologies and Testing Needs Technical Memorandum and appended Phase I Treatability Study Work Plan and Sampling and Analysis Plan on September 22, 2006. This memo and work plan provided the rationale and scope for a study to collect additional data on the affected sediments in preparation for the alternatives analysis that will be performed as part of the Feasibility Study. The memo described the advantage that performing this testing program at this time will optimize the remedial decision making process. This will avoid potential future delays implementing the remedy if this data is not developed before the Record of Decision (ROD) is issued.

Field Activities Planned

Coleman Engineering will continue to monitor the free-product removal system on a weekly basis during October 2006. Coleman will also temporarily realign the discharge line from the

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EW-4 extraction well temporarily bypassing the gravity separator. The discharge will be routed directly to the treatment system. This will allow the SITE program unbiased information from the other three extraction wells during injection and subsequent monitoring planned for the MW-13 well nest area. Following the SITE monitoring, the EW-4 discharge will be replaced in its original configuration.

An on-site meeting is scheduled with NSPW representatives, the SITE program injection contractor and the City of Ashland on October 19, 2006. This meeting will discuss access and logistical arrangements for the injection program. USEPA and its representatives have been requested to attend. As described above, this meeting is in preparation for the pre-injection sampling program that will be performed by Tetra Tech the week of November 6, 2006. The injection program will be initiated the beginning of the following week, November 13th.

Reporting Activities Planned

NSPW will report the results of the October 12th meeting with USEPA scheduled to discuss the comments to draft RI Report and Associated Documents in the November 15, 2006 monthly report. That report will also contain information on the latest progress of the SITE program.

Attachments:

Table 1 - Remediation System Water Quality Monitoring Results

Table 2 - Remediation System Air Monitoring Results

Table 3 - Summary of Free-Product and Groundwater Volume Removed

Table 4 – Remediation System – Air Treatment Summary

Table 5 – Remediation System – Water Treatment Summary

Appendix – Interim Treatment System - Laboratory Reporting Forms

Table 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin

September 2006

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	⁽³⁾ Frequency
VOCs								
1,1,1,2-TETRACHLOROETHANE	ug/L	<220	<17	<0.18	<0.18	--	EPA 8260	Monthly
1,1,1-TRICHLOROETHANE	ug/L	<190	<15	<0.2	<0.2	--	EPA 8260	Monthly
1,1,2,2-TETRACHLOROETHANE	ug/L	<190	<15	<0.18	<0.18	--	EPA 8260	Monthly
1,1,2-TRICHLOROETHANE	ug/L	<210	<17	<0.17	<0.17	--	EPA 8260	Monthly
1,1-DICHLOROETHANE	ug/L	<210	<17	<0.21	<0.21	--	EPA 8260	Monthly
1,1-DICHLOROETHENE	ug/L	<140	<11	<0.19	<0.19	--	EPA 8260	Monthly
1,1-DICHLOROPROPENE	ug/L	<400	<32	<0.18	<0.18	--	EPA 8260	Monthly
1,2,3-TRICHLOROBENZENE	ug/L	<390	<31	<0.17	<0.17	--	EPA 8260	Monthly
1,2,3-TRICHLOROPROPANE	ug/L	<240	<19	<0.19	<0.19	--	EPA 8260	Monthly
1,2,4-TRICHLOROBENZENE	ug/L	<370	<30	<0.15	<0.15	--	EPA 8260	Monthly
1,2,4-TRIMETHYLBENZENE	ug/L	260J	<16	<0.18	<0.18	--	EPA 8260	Monthly
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	<420	<34	<0.17	<0.17	--	EPA 8260	Monthly
1,2-DIBROMOETHANE	ug/L	<200	<16	<0.17	<0.17	--	EPA 8260	Monthly
1,2-DICHLOROBENZENE	ug/L	<200	<16	<0.19	<0.19	--	EPA 8260	Monthly
1,2-DICHLOROETHANE	ug/L	<210	<17	<0.19	<0.19	--	EPA 8260	Monthly
1,2-DICHLOROPROPANE	ug/L	<240	<19	<0.18	<0.18	--	EPA 8260	Monthly
1,3,5-TRIMETHYLBENZENE	ug/L	<200	<16	<0.18	<0.18	--	EPA 8260	Monthly
1,3-DICHLOROBENZENE	ug/L	<200	<16	<0.19	<0.19	--	EPA 8260	Monthly
1,3-DICHLOROPROPANE	ug/L	<220	<17	<0.19	<0.19	--	EPA 8260	Monthly
1,4-DICHLOROBENZENE	ug/L	<240	<19	<0.2	<0.2	--	EPA 8260	Monthly
2,2-DICHLOROPROPANE	ug/L	<190	<15	<0.15	<0.15	--	EPA 8260	Monthly
2-CHLOROTOLUENE	ug/L	<200	<16	<0.19	<0.19	--	EPA 8260	Monthly
4-CHLOROTOLUENE	ug/L	<190	<15	<0.18	<0.18	--	EPA 8260	Monthly
BENZENE	ug/L	600J	31J	<0.2	<0.2	--	EPA 8260	Monthly
BROMOBENZENE	ug/L	<230	<18	<0.19	<0.19	--	EPA 8260	Monthly
BROMOCHLOROMETHANE	ug/L	<240	<20	<0.19	<0.19	--	EPA 8260	Monthly
BROMODICHLOROMETHANE	ug/L	<230	<19	<0.2	<0.2	--	EPA 8260	Monthly
BROMOFORM	ug/L	<170	<13	<0.16	<0.16	--	EPA 8260	Monthly
BROMOMETHANE	ug/L	<340	<27	<0.11	<0.11	--	EPA 8260	Monthly
CARBON TETRACHLORIDE	ug/L	<190	<15	<0.18	<0.18	--	EPA 8260	Monthly
CHLOROBENZENE	ug/L	<220	<18	<0.16	<0.16	--	EPA 8260	Monthly
CHLOROETHANE	ug/L	<2000	<160	<0.48	<0.48	--	EPA 8260	Monthly
CHLOROFORM	ug/L	<200	<16	<0.17	<0.17	--	EPA 8260	Monthly
CHLOROMETHANE	ug/L	<240	<19	<0.14	<0.14	--	EPA 8260	Monthly
CIS-1,2-DICHLOROETHYLENE	ug/L	<340	<27	<0.2	<0.2	--	EPA 8260	Monthly
CIS-1,3-DICHLOROPROPENE	ug/L	<200	<16	<0.18	<0.18	--	EPA 8260	Monthly
CYMENE	ug/L	<200	<16	<0.18	<0.18	--	EPA 8260	Monthly
DIBROMOCHLOROMETHANE	ug/L	<240	<19	<0.17	<0.17	--	EPA 8260	Monthly
DIBROMOMETHANE	ug/L	<230	<18	<0.19	<0.19	--	EPA 8260	Monthly
DICHLORODIFLUOROMETHANE	ug/L	<260	<20	<0.17	<0.17	--	EPA 8260	Monthly
ETHYLBENZENE	ug/L	<200	<16	<0.18	<0.18	--	EPA 8260	Monthly
HEXAChLOROBUTADIENE	ug/L	<350	<28	<0.43	<0.43	--	EPA 8260	Monthly
ISOPROPYL ETHER	ug/L	<200	<16	<0.18	<0.18	--	EPA 8260	Monthly
ISOPROPYLBENZENE (CUMENE)	ug/L	<190	<15	<0.16	<0.16	--	EPA 8260	Monthly
M,P-XYLENE (SUM OF ISOMERS)	ug/L	460J	<33	<0.33	<0.33	--	EPA 8260	Monthly
METHYLENE CHLORIDE	ug/L	<300	<24	0.62J	1.7	--	EPA 8260	Monthly
NAPHTHALENE	ug/L	6200	970	0.33J	<0.26	--	EPA 8260	Monthly
N-BUTYLBENZENE	ug/L	<160	<13	<0.37	<0.37	--	EPA 8260	Monthly
N-PROPYLBENZENE	ug/L	<170	<14	<0.19	<0.19	--	EPA 8260	Monthly
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/L	250J	<17	<0.16	<0.16	--	EPA 8260	Monthly
SEC-BUTYLBENZENE	ug/L	<190	<15	<0.21	<0.21	--	EPA 8260	Monthly
STYRENE	ug/L	500J	17J	<0.14	<0.14	--	EPA 8260	Monthly
T-BUTYLBENZENE	ug/L	<190	<15	<0.2	<0.2	--	EPA 8260	Monthly
TERT-BUTYL METHYL ETHER	ug/L	<200	<16	<0.19	<0.19	--	EPA 8260	Monthly
TETRACHLOROETHYLENE (PCE)	ug/L	<160	<13	<0.18	<0.18	--	EPA 8260	Monthly
TOLUENE	ug/L	590J	21J	<0.18	<0.18	--	EPA 8260	Monthly
TRANS-1,2-DICHLOROETHENE	ug/L	<210	<16	<0.17	<0.17	--	EPA 8260	Monthly
TRANS-1,3-DICHLOROPROPENE	ug/L	<200	<16	<0.16	<0.16	--	EPA 8260	Monthly
TRICHLOROETHYLENE (TCE)	ug/L	<190	<15	<0.21	<0.21	--	EPA 8260	Monthly
TRICHLOROFLUOROMETHANE	ug/L	<170	<13	<0.34	<0.34	--	EPA 8260	Monthly
VINYL CHLORIDE	ug/L	<170	<13	<0.17	<0.17	--	EPA 8260	Monthly
Total VOCs	ug/L	8,860	1039	0.95	1.7	(²)1000		

Collected September 6, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

⁽¹⁾ POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽³⁾ BTEX and PVOCS collected monthly, remaining analytes collected semi-annually

Table 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin

September 2006

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	Frequency
PAHs, DRO, GRO								
1-METHYLNAPHTHALENE	ug/L	(4)	(4)	0.06J	(4)	--	SW8310	Quarterly
2-METHYLNAPHTHALENE	ug/L	(4)	(4)	<0.024	(4)	--	SW8310	Quarterly
ACENAPHTHENE	ug/L	(4)	(4)	<0.027	(4)	--	SW8310	Quarterly
ACENAPHTHYLENE	ug/L	(4)	(4)	0.04J	(4)	--	SW8310	Quarterly
ANTHRACENE	ug/L	(4)	(4)	<0.023	(4)	--	SW8310	Quarterly
BENZO(A)ANTHRACENE	ug/L	(4)	(4)	0.043J	(4)	--	SW8310	Quarterly
BENZO(A)PYRENE	ug/L	(4)	(4)	0.045J	(4)	--	SW8310	Quarterly
BENZO(B)FLUORANTHENE	ug/L	(4)	(4)	0.042J	(4)	--	SW8310	Quarterly
BENZO(G,H,I)PERYLENE	ug/L	(4)	(4)	0.029J	(4)	--	SW8310	Quarterly
BENZO(K)FLUORANTHENE	ug/L	(4)	(4)	<0.034	(4)	--	SW8310	Quarterly
CHRYSENE	ug/L	(4)	(4)	0.028J	(4)	--	SW8310	Quarterly
DIBENZO(A,H)ANTHRACENE	ug/L	(4)	(4)	<0.033	(4)	--	SW8310	Quarterly
FLUORANTHENE	ug/L	(4)	(4)	<0.027	(4)	--	SW8310	Quarterly
FLUORENE	ug/L	(4)	(4)	<0.026	(4)	--	SW8310	Quarterly
INDENO(1,2,3-C,D)PYRENE	ug/L	(4)	(4)	<0.034	(4)	--	SW8310	Quarterly
NAPHTHALENE	ug/L	(4)	(4)	<0.023	(4)	--	SW8310	Quarterly
PHENANTHRENE	ug/L	(4)	(4)	0.028J	(4)	--	SW8310	Quarterly
PYRENE	ug/L	(4)	(4)	0.035J	(4)	--	SW8310	Quarterly
DIESEL RANGE ORGANICS (DRO)	mg/L	(4)	(4)	<0.021	(4)	50	DRO	Semi-Annual
GASOLINE RANGE ORGANICS (GRO)	mg/L	(4)	(4)	<0.012	(4)	50	GRO	Semi-Annual
Inorganics								
CADMIUM, TOTAL (UG/L CD)	ug/L	(4)	(4)	<0.17	(4)	110	E365.2	Semi-Annual
CHROMIUM, TOTAL (UG/L CR)	ug/L	(4)	(4)	<1	(4)	2500	SW6010	Semi-Annual
COPPER, TOTAL (UG/L CU)	ug/L	(4)	(4)	1.4J	(4)	2000	SW6010	Semi-Annual
LEAD, TOTAL (UG/L PB)	ug/L	(4)	(4)	<1.3	(4)	100	SW6010	Semi-Annual
MERCURY, TOTAL (UG/L HG)	ug/L	(4)	(4)	<0.025	(4)	0.5	SW6010	Semi-Annual
OIL & GREASE, TOTAL REC	mg/L	(4)	(4)	<1.1	(4)	5.5<pH>9.5	SW7470A	Semi-Annual
PH, LAB (STANDARD UNITS)	pH units	(4)	(4)	7.56	(4)	5.0	SW9040	Semi-Annual
PHOSPHORUS, TOTAL (MG/L P)	mg/L	(4)	(4)	0.007	(4)	50	A5520	Quarterly

Collected September 6, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

⁽¹⁾POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽⁴⁾ Parameter not analyzed

Table 2
Remediation System Air Monitoring Results
Northern States Power, Ashland, Wisconsin

September 2006

Analyte	Units	Air Stripper	1st Stage Carbon	Effluent	Method	Frequency
VOCs						
Volume Collected	Liters	3.0	3.0	3.0		
Benzene	ug	<20	<20	<20	NIOSH 1501	Monthly
Benzene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Ethylbenzene	ug	<20	<20	<20	NIOSH 1501	Monthly
Ethylbenzene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Hydrocarbons (total)	ug	<30	<30	<30	NIOSH 1550	Monthly
Hydrocarbons (total)	mg/m ³	<10	<10	<6.0	NIOSH 1550	Monthly
Toluene	ug	<20	<20	<20	NIOSH 1501	Monthly
Toluene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Xylene, Total	ug	<30	<30	<30	NIOSH 1501	Monthly
Xylene, Total	mg/m ³	<10	<10	<6.0	NIOSH 1501	Monthly

Collected September 6, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Table 3
Summary of Free Product and Groundwater Volume Removed

Date	Cumulative Volume of Free Product Removed (gals)	Cumulative Volume of Free Product Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
20-Feb-01	554.2	4,853	22,826	0	22,826
30-Mar-01	850.0	7,443	44,613	0	44,613
26-Apr-01	915.2	8,014	56,978	0	56,978
17-May-01	1,078.2	9,442	58,967	0	58,967
11-Jun-01	1,291.2	11,307	61,094	0	61,094
31-Jul-01	1,535.2	13,444	65,758	0	65,758
15-Aug-01	1,578.0	13,819	65,758	0	65,758
12-Sep-01	1,578.0	14,193	81,524	0	81,524
28-Sep-01	1,789.9	15,674	104,500	0	104,500
12-Nov-01 ¹	2,486.4	21,773	104,900	0	104,900
13-Nov-01	2,551.6	22,344	106,200	0	106,200
14-Nov-01	2,559.7	22,415	107,600	0	107,600
19-Nov-01	2,600.5	22,772	114,200	0	114,200
28-Nov-01	2,682.0	23,486	125,200	0	125,200
03-Dec-01	2,779.8	24,342	131,500	0	131,500
12-Dec-01	2,877.6	25,199	142,300	0	142,300
19-Dec-01	2,975.4	26,055	155,328	0	155,328
03-Jan-02	3,105.8	27,197	172,000	0	172,000
05-Feb-02	3,105.7	27,197	173,116	0	173,116
11-Feb-02	3,122.0	27,340	178,300	0	178,300
12-Feb-02	3,122.1	27,340	180,100	0	180,100
19-Feb-02	3,122.1	27,340	182,900	0	182,900
06-Mar-02	3,138.4	27,483	183,000	0	183,000
12-Mar-02	3,187.3	27,911	194,400	0	194,400
18-Mar-02	3,219.9	28,196	199,400	0	199,400
27-Mar-02	3,317.7	29,053	210,500	0	210,500
03-Apr-02	3,350.3	29,338	216,600	0	216,600
09-Apr-02	3,399.2	29,767	224,000	0	224,000
23-Apr-02	3,473.6	30,419	238,100	0	238,100
30-Apr-02	3,514.3	30,775	246,700	0	246,700
08-May-02	3,538.8	30,989	256,900	0	256,900
15-May-02	3,587.7	31,418	264,500	0	264,500
20-May-02	3,612.1	31,631	266,900	0	266,900
24-May-02	3,636.5	31,845	268,365	10,935	279,300
28-May-02	3,652.8	31,988	272,215	13,185	285,400
17-Jun-02	3,669.1	32,131	287,693	28,507	316,200
25-Jun-02	3,726.2	32,631	295,908	35,492	331,400
02-Jul-02	3,766.9	32,987	299,147	42,153	341,300
09-Jul-02	3,783.2	33,130	306,783	42,717	349,500
17-Jul-02	3,799.5	33,272	314,710	49,990	364,700
22-Jul-02	3,824.0	33,487	319,384	54,516	373,900
29-Jul-02	3,864.7	33,843	326,542	57,158	383,700
08-Aug-02	3,905.5	34,201	334,406	68,394	402,800
15-Aug-02	3,921.8	34,343	340,391	68,609	409,000
09-Sep-02	3,942.1	34,521	343,084	79,816	422,900
19-Sep-02	4,003.3	35,057	350,659	91,441	442,100
26-Sep-02	4,003.3	35,057	356,565	91,535	448,100
04-Oct-02	4,003.3	35,057	363,135	93,265	456,400
11-Oct-02	4,003.3	35,057	374,863	94,737	469,600
18-Oct-02	4,027.8	35,272	374,863	94,737	485,600
25-Oct-02	4,158.2	36,414	379,459	116,901	496,360
31-Oct-02	4,166.3	36,484	381,556	121,045	502,600
08-Nov-02	4,166.3	36,484	390,756	121,045	511,800
21-Nov-02	4,753.3	41,625	387,629	124,272	511,900
26-Nov-02	4,773.6	41,803	391,434	127,566	519,000
04-Dec-02	4,789.9	41,945	398,205	129,795	528,000
10-Dec-02	4,802.2	42,053	403,230	130,971	534,200
18-Dec-02	4,826.6	42,267	410,356	132,444	542,800
23-Dec-02	4,842.9	42,409	412,967	133,333	546,300
30-Dec-02	4,855.1	42,516	415,842	134,458	550,300
10-Jan-03	4,883.7	42,767	425,575	136,125	561,700
15-Jan-03	4,900.0	42,910	429,541	136,859	566,400
20-Jan-03	4,920.3	43,087	434,133	137,567	571,700
30-Jan-03	4,952.9	43,373	442,556	138,844	581,400
13-Feb-03	4,989.6	43,694	454,019	140,881	594,900
19-Feb-03	5,007.8	43,854	456,851	141,149	598,000
26-Feb-03	5,036.3	44,103	463,081	142,019	605,100
04-Mar-03	5,036.3	44,103.1	468,458	142,742	611,200
27-Mar-03	5,036.3	44,103.1	471,979	143,488	615,467
02-Apr-03	5,097.5	44,639	478,430	144,870	623,300
09-Apr-03	5,105.6	44,710	483,745	145,855	629,600
16-Apr-03	5,121.9	44,853	487,333	148,267	635,600
23-Apr-03 ²	4,910.0	42,997	492,504	152,796	645,300
29-Apr-03	4,926.3	43,140	495,729	155,771	651,500
07-May-03	4,926.3	43,140	499,877	158,223	658,100
15-May-03	4,926.3	43,140	499,877	158,223	658,100
21-May-03	4,942.6	43,283	515,230	172,470	687,700
28-May-03	4,958.9	43,425	522,943	175,357	698,300
03-Jun-03	4,967.1	43,497	524,602	176,598	701,200
10-Jun-03	4,975.2	43,568	529,728	178,472	708,200
17-Jun-03	4,983.4	43,640	534,411	179,789	714,200
26-Jun-03	4,983.4	43,640	540,050	180,950	721,000
02-Jul-03	4,983.4	43,640	543,291	181,909	725,200
09-Jul-03	4,983.4	43,640	549,991	181,909	731,900

Table 3
Summary of Free Product and Groundwater Volume Removed

Date	Cumulative Volume of Free Product Removed (gals)	Cumulative Volume of Free Product Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
16-Jul-03	4,991.5	43,711	553,174	185,526	738,700
22-Jul-03	4,999.7	43,783	556,643	186,957	743,600
30-Jul-03	5,007.8	43,854	560,726	188,074	748,800
06-Aug-03	5,040.4	44,139	562,275	188,825	751,100
20-Aug-03	5,081.2	44,496	567,361	191,139	758,500
28-Aug-03	5,138.2	44,995	570,561	191,139	761,700
04-Sep-03	5,316.7	46,559	572,759	191,841	764,600
11-Sep-03	5,382.7	47,137	575,659	191,841	767,500
19-Sep-03	5,423.5	47,494	579,259	191,841	771,100
25-Sep-03	5,366.4	46,994	578,399	197,101	775,500
03-Oct-03	5,382.7	47,137	584,399	197,101	781,500
09-Oct-03	5,399.0	47,279	583,771	198,229	782,000
24-Oct-03	5,452.0	47,743	589,679	200,821	790,500
29-Oct-03	5,481.5	48,002	592,579	200,821	793,400
06-Nov-03	5,530.4	48,430	596,979	200,821	797,800
13-Nov-03	5,546.7	48,573	598,764	200,836	799,600
11/19/2003	5,571.2	48,787	598,895	201,005	799,900
25-Nov-03	5,591.5	48,965	601,544	202,056	803,600
03-Dec-03	5,620.1	49,215	604,762	203,438	808,200
11-Dec-03	5,644.5	49,429	608,144	204,556	812,700
19-Dec-03	5,669.0	49,644	612,612	205,488	818,100
26-Dec-03	5,685.5	49,788	615,254	206,146	821,400
29-Dec-03	5,693.4	49,857	615,310	206,190	821,500
09-Jan-04	5,705.6	49,964	618,110	206,190	824,300
20-Jan-04	5,709.7	50,000	619,147	207,153	826,300
29-Jan-04	5,713.8	50,036	626,409	208,091	834,500
03-Feb-04	5,726.0	50,143	630,515	208,485	839,000
11-Feb-04	5,726.0	50,143	633,094	208,706	841,800
17-Feb-04	5,734.2	50,215	637,911	209,089	847,000
26-Feb-04	5,742.3	50,286	645,083	209,617	854,700
02-Mar-04	5,754.5	50,392	649,270	209,930	859,200
12-Mar-04	5,774.9	50,571	657,501	210,999	868,500
19-Mar-04	5,807.9	50,860	664,798	212,102	876,900
25-Mar-04	5,819.7	50,963	669,603	214,997	884,600
02-Apr-04	5,823.8	50,999	669,738	215,163	884,900
05-Apr-04	5,823.8	50,999	672,233	217,667	889,900
23-Apr-04	5,827.9	51,035	672,869	218,231	891,100
27-Apr-04	5,836.0	51,106	673,684	219,616	893,300
12-May-04	5,852.3	51,249	678,475	223,625	902,100
17-May-04	5,856.4	51,285	682,349	225,151	907,500
25-May-04	5,872.7	51,427	688,062	226,538	914,600
04-Jun-04	5,884.9	51,534	697,811	230,589	928,400
10-Jun-04	5,913.5	51,785	703,940	232,060	936,000
14-Jun-04	5,937.9	51,998	708,258	232,742	941,000
24-Jun-04	5,995.0	52,498	719,009	234,191	953,200
02-Jul-04	6,039.8	52,891	726,095	235,205	961,300
06-Jul-04	6,064.2	53,104	729,338	235,762	965,100
14-Jul-04	6,133.5	53,711	745,363	237,038	982,400
20-Jul-04	6,133.5	53,711	739,893	238,007	977,900
26-Jul-04	6,182.4	54,139	744,946	238,654	983,600
04-Aug-04	6,235.4	54,604	749,874	239,426	989,300
10-Aug-04	6,284.3	55,032	752,585	239,915	992,500
19-Aug-04	6,316.9	55,317	753,677	240,923	994,600
26-Aug-04	6,345.4	55,567	759,482	241,618	1,001,100
31-Aug-04	6,378.0	55,852	762,807	242,793	1,005,600
10-Sep-04	6,422.8	56,245	766,587	243,514	1,010,100
15-Sep-04	6,439.1	56,387	770,402	244,599	1,015,000
24-Sep-04	6,451.4	56,495	777,825	247,575	1,025,400
27-Sep-04	6,492.1	56,852	780,289	248,111	1,028,400
07-Oct-04	6,508.4	56,994	789,339	249,261	1,038,600
15-Oct-04	6,528.8	57,173	795,323	250,477	1,045,800
19-Oct-04	6,541.0	57,280	798,370	251,030	1,049,400
28-Oct-04	6,557.3	57,422	805,072	252,428	1,057,500
04-Nov-04	6,577.7	57,601	809,388	254,112	1,063,500
11-Nov-04	6,663.3	58,351	809,373	254,427	1,063,800
17-Nov-04	6,679.6	58,493	813,846	255,954	1,069,800
23-Nov-04	6,704.0	58,707	815,871	256,629	1,072,500
01-Dec-04	6,708.1	58,743	818,447	257,353	1,075,800
09-Dec-04	6,720.3	58,850	825,818	258,582	1,084,400
15-Dec-04	6,744.8	59,064	831,411	259,289	1,090,700
21-Dec-04	6,761.1	59,207	836,911	259,289	1,096,200
03-Jan-05	6,850.7	59,992	848,711	259,289	1,108,000
12-Jan-05	6,891.5	60,349	853,611	259,289	1,112,900
20-Jan-05	6,924.1	60,635	859,476	259,824	1,119,300
27-Jan-05	6,981.1	61,134	864,329	260,671	1,125,000
01-Feb-05	7,013.7	61,419	867,637	261,264	1,128,900
08-Feb-05	7,058.5	61,811	872,617	262,083	1,134,700
17-Feb-05	7,103.4	62,205	879,040	263,060	1,142,100
23-Feb-05	7,225.7	63,276	883,368	263,632	1,147,000
03-Mar-05	7,274.6	63,704	889,041	264,459	1,153,500
08-Mar-05	7,307.2	63,989	892,526	264,974	1,157,500
15-Mar-05	7,347.9	64,346	895,198	265,602	1,160,800
22-Mar-05	7,372.4	64,560	899,294	266,206	1,165,500
29-Mar-05	7,413.1	64,917	898,895	269,205	1,168,100

Table 3
Summary of Free Product and Groundwater Volume Removed

Date	Cumulative Volume of Free Product Removed (gals)	Cumulative Volume of Free Product Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
06-Apr-05	7,453.9	65,274	904,348	270,652	1,175,000
14-Apr-05	7,494.6	65,630	903,599	277,501	1,181,100
20-Apr-05	7,531.3	65,952	904,434	278,967	1,183,400
27-Apr-05	7,572.0	66,308	905,998	279,902	1,185,900
03-May-05	7,572.0	66,308	907,569	280,831	1,188,400
13-May-05	7,576.1	66,344	909,996	281,504	1,191,500
17-May-05	7,576.1	66,344	910,118	281,583	1,191,700
27-May-05	7,584.3	66,416	911,688	282,912	1,194,600
03-Jun-05	7,590.4	66,469	912,599	283,802	1,196,400
09-Jun-05	7,590.4	66,469	913,562	285,038	1,198,600
15-Jun-05	7,604.6	66,594	914,093	286,707	1,200,800
22-Jun-05	7,596.5	66,523	914,759	286,741	1,201,500
06-Jul-05	7,600.6	66,559	917,068	287,132	1,204,200
14-Jul-05	7,604.6	66,594	920,201	287,499	1,207,700
21-Jul-05	7,606.7	66,612	923,019	287,681	1,210,700
03-Aug-05	7,620.9	66,736	927,240	287,760	1,215,000
11-Aug-05	7,625.0	66,772	927,840	287,760	1,215,600
15-Aug-05	7,625.0	66,772	927,836	287,764	1,215,600
17-Aug-05	7,625.0	66,772	927,836	287,764	1,215,600
25-Aug-05	7,633.2	66,844	931,061	288,139	1,219,200
31-Aug-05	7,637.2	66,879	933,239	289,261	1,222,500
08-Sep-05	7,641.3	66,915	935,371	291,729	1,227,100
14-Sep-05	7,649.5	66,987	937,386	292,915	1,230,300
20-Sep-05	7,653.5	67,022	939,692	294,009	1,233,700
29-Sep-05	7,665.8	67,130	943,360	294,240	1,237,600
07-Oct-05	7,669.8	67,165	946,494	294,406	1,240,900
11-Oct-05	7,673.9	67,201	948,107	294,493	1,242,600
20-Oct-05	7,694.3	67,379	951,719	294,682	1,246,400
27-Oct-05	7,702.4	67,450	954,582	294,819	1,249,400
03-Nov-05	7,714.7	67,558	957,847	294,953	1,252,800
07-Nov-05	7,740.4	67,783	959,285	295,015	1,254,300
17-Nov-05	7,747.3	67,843	964,061	295,139	1,259,200
22-Nov-05	7,759.5	67,950	965,991	295,209	1,261,200
01-Dec-05	7,771.7	68,057	969,762	295,338	1,265,100
07-Dec-05	7,775.8	68,093	971,880	295,420	1,267,300
15-Dec-05	7,796.2	68,272	974,873	295,527	1,270,400
20-Dec-05	7,804.3	68,342	976,634	295,566	1,272,200
29-Dec-05	7,812.5	68,414	980,395	295,605	1,276,000
05-Jan-06	7,820.6	68,485	983,272	295,628	1,278,900
11-Jan-06	7,828.8	68,557	985,872	295,628	1,281,500
17-Jan-06	7,836.9	68,628	988,572	295,628	1,284,200
23-Jan-06	7,841.0	68,664	990,801	296,099	1,286,900
02-Feb-06	7,853.2	68,771	995,042	298,159	1,293,200
06-Feb-06	7,869.5	68,913	997,242	298,159	1,295,400
16-Feb-06	7,877.7	68,985	1,002,623	298,177	1,300,800
21-Feb-06	7,889.9	69,092	994,712	299,188	1,293,900
22-Feb-06	7,902.1	69,199	994,712	299,188	1,293,900
01-Mar-06	7,922.5	69,378	997,166	300,234	1,297,400
07-Mar-06	7,930.7	69,449	999,465	301,035	1,300,500
15-Mar-06	7,942.9	69,556	1,002,489	302,611	1,305,100
22-Mar-06	7,959.2	69,699	1,005,334	304,466	1,309,800
31-Mar-06	7,963.3	69,735	1,009,815	306,985	1,316,800
04-Apr-06	7,965.4	69,753	1,012,473	309,427	1,321,900
11-Apr-06	7,967.3	69,770	1,015,913	312,387	1,328,300
19-Apr-06	7,971.4	69,806	1,019,668	314,232	1,333,900
28-Apr-06	7,975.5	69,842	1,019,920	314,780	1,334,700
04-May-06	7,979.6	69,878	1,022,600	316,100	1,338,700
09-May-06	7,979.6	69,878	1,024,909	316,891	1,341,800
18-May-06	7,991.8	69,984	1,028,874	318,826	1,347,700
24-May-06	7,999.9	70,055	1,031,888	320,312	1,352,200
31-May-06	8,012.2	70,163	1,035,443	321,557	1,357,000
07-Jun-06	8,020.3	70,234	1,039,065	322,335	1,361,400
16-Jun-06	8,028.5	70,306	1,042,872	323,528	1,366,400
22-Jun-06	8,044.8	70,449	1,045,736	324,064	1,369,800
29-Jun-06	8,069.2	70,662	1,049,141	324,459	1,373,600
06-Jul-06	8,073.3	70,698	1,051,834	325,366	1,377,200
12-Jul-06	8,085.5	70,805	1,054,222	326,078	1,380,300
19-Jul-06	8,093.7	70,876	1,056,982	326,919	1,383,900
26-Jul-06	8,101.8	70,948	1,059,674	327,826	1,387,500
01-Aug-06	8,114.0	71,055	1,064,153	327,348	1,391,500
10-Aug-06	8,122.2	71,126	1,071,862	334,139	1,406,000
16-Aug-06	8,146.6	71,340	1,078,381	335,819	1,414,200
23-Aug-06	8,154.8	71,412	1,085,230	336,871	1,422,100
31-Aug-06	8,158.9	71,448	1,090,690	337,910	1,428,600
06-Sep-06	8,171.1	71,555	1,094,914	338,486	1,433,400
13-Sep-06	8,179.2	71,625	1,097,754	339,346	1,437,100
19-Sep-06	8,183.3	71,661	1,104,061	340,139	1,444,200
27-Sep-06	8,211.8	71,911	1,107,431	341,069	1,448,500
03-Oct-06	8,224.1	72,018	1,110,093	341,808	1,451,900

¹ Increase in free product removal w/ no change in groundwater removal volume due to free product collection tank and wash tank being pumped out and shipped to WRR in Eau Claire, WI. Total volume of 1324 gallons, w/ a current estimate of 85% free product in that volume.

² Correction of revised quantity of free product removed on 4/23/2003 of -211.9 gallons due to settling of emulsified free product measured on this date.

Table 4
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/ Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ³) ²	Benzene (mg/m ³) ²	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
28-Sep-00	2	Effluent	176	70	5	3.33	0.08	0.05	-	-	0.2	0.1
19-Jan-01	21	Influent	176	-	45.5	9.1	0.71	0.14	10.36	0.00	4.2	2.8
19-Jan-01	21	Effluent	176	45	13.7	9.1	0.21	0.14				
30-Mar-01	84	Influent	176	-	71.7	26.3	1.11	0.41	50.73	18.08		
30-Mar-01	84	Effluent	176	52	30.4	7.8	0.47	0.12			33.9	10.4
11-Apr-01	96	Influent	176	-	33	7.67	0.51	0.12	56.32	19.14		
11-Apr-01	96	Effluent	176	62	3	2	0.05	0.03			34.5	10.8
17-May-01	110	Effluent	176	68	5	3.33	0.08	0.05			35.6	11.5
13-Jun-01	125	Effluent	176	80	5	3.33	0.08	0.05			36.7	12.3
31-Jul-01	135	Effluent	176	80	5	3.33	0.08	0.05			37.5	12.8
7-Dec-01	196	Influent	176	35	60	10	0.93	0.16	116.90	26.49		
7-Dec-01	196	Effluent	176	35	5	3.33	0.08	0.05			44.2	17.2
22-Feb-02	232	Influent	176	30	303	39	4.70	0.61	284.47	47.15		
22-Feb-02	232	Effluent	176	30	3	2	0.05	0.03			45.8	18.4
4-Apr-02	267	Influent	176	55	33	8	0.51	0.12	300.76	50.41		
4-Apr-02	267	Effluent	176	55	3	2	0.05	0.03			47.5	19.4
8-Aug-02	393	Influent	15	80	1270	311	1.68	0.41	473.04	91.27		
8-Aug-02	393	Effluent	15	80	236	65.8	0.31	0.09			86.8	30.4
31-Oct-02	456	Influent	125	32	2100	410	23.14	4.52	1919.39	373.59		
31-Oct-02	456	Intermediate	125	32	32.7	3.33	0.36	0.04			98.3	31.8
31-Oct-02	456	Effluent	125	32	16.6	2	0.18	0.02				
27-Nov-02	470	Influent	125	25	1780	500	19.61	5.51	2193.53	450.21		
27-Nov-02	470	Intermediate	125	25	15.3	3.33	0.17	0.04			98.8	32.1
27-Nov-02	470	Effluent	125	25	3	2	0.03	0.02				
30-Jan-03	534	Influent	125	20	17.7	3.33	0.20	0.04	2189.80	445.01		
30-Jan-03	534	Intermediate	125	20	19.7	6.67	0.22	0.07				
30-Jan-03	534	Effluent	125	20	23	10.7	0.25	0.12			115.0	39.7
19-Feb-03	554	Influent	125	19	5	3.33	0.06	0.04	2188.43	444.73		
19-Feb-03	554	Intermediate	125	19	5	3.33	0.06	0.04				
19-Feb-03	554	Effluent	125	19	11.2	4.6	0.12	0.05			117.5	40.7
2-Apr-03	580	Influent	125	29	22	3.33	0.24	0.04	2187.11	442.42		
2-Apr-03	580	Intermediate	125	29	47.3	14.7	0.52	0.16				
2-Apr-03	580	Effluent	125	29	26.6	11.4	0.29	0.13			125.1	43.9
23-Apr-03	596	Influent	125	29	66.3	18.3	0.73	0.20	2195.52	444.62		
23-Apr-03	596	Intermediate	125	29	20.7	3.33	0.23	0.04				
23-Apr-03	596	Effluent	125	29	18.6	5.8	0.20	0.06			128.4	45.0
21-May-03	619	Influent	125	29	43	10	0.47	0.11	2198.51	445.69		
21-May-03	619	Intermediate	125	29	36.7	3.33	0.40	0.04				
21-May-03	619	Effluent	125	29	31.2	5.8	0.34	0.06			136.3	46.4
25-Jun-03	654	Influent	125	29	22	3.33	0.24	0.04	2196.74	442.57		
25-Jun-03	654	Intermediate	125	29	47.3	14.7	0.52	0.16				
25-Jun-03	654	Effluent	125	29	26.6	11.4	0.29	0.13			146.5	50.8
30-Jul-03	684	Influent	125	29	10	3.33	0.11	0.04	2187.05	442.57		
30-Jul-03	684	Intermediate	125	29	15.7	3.33	0.17	0.04				
30-Jul-03	684	Effluent	125	29	39.3	3.33	0.43	0.04			159.5	51.9
28-Aug-03	713	Influent	125	29	5	3.33	0.06	0.04	2183.67	443.00		
28-Aug-03	713	Intermediate	125	29	15	3.33	0.17	0.04				
28-Aug-03	713	Effluent	125	29	15.6	2	0.17	0.02			164.5	52.6
29-Sep-03	745	Influent	125	29	21.3	3.33	0.23	0.04	2182.22	442.34		
29-Sep-03	745	Intermediate	125	29	15	3.33	0.17	0.04				
29-Sep-03	745	Effluent	125	29	25.4	5.2	0.28	0.06			173.5	54.4
29-Oct-03	775	Influent	125	29	5	3.33	0.06	0.04	2179.24	442.78		
29-Oct-03	775	Intermediate	125	29	14.3	3.33	0.16	0.04				
29-Oct-03	775	Effluent	125	29	14	2	0.15	0.02			178.1	55.1
19-Nov-03	796	Influent	125	29	5	3.33	0.06	0.04	2179.71	443.09		
19-Nov-03	796	Intermediate	125	29	5	3.33	0.06	0.04				
19-Nov-03	796	Effluent	125	29	3	2	0.03	0.02			178.8	55.5
29-Dec-03	836	Influent	125	29	5	3.33	0.06	0.04	2177.59	443.67		
29-Dec-03	836	Intermediate	125	29	5	3.33	0.06	0.04				
29-Dec-03	836	Effluent	125	29	9.8	2	0.11	0.02			183.1	56.4
20-Jan-04	858	Influent	125	29	12.7	3.33	0.14	0.04	2179.94	444.00		
20-Jan-04	858	Intermediate	125	29	5	3.33	0.06	0.04				
20-Jan-04	858	Effluent	125	29	3	2	0.03	0.02			183.8	56.9
26-Feb-04	895	Influent	125	29	28.3	6.67	0.31	0.07	2183.65	443.78		
26-Feb-04	895	Intermediate	125	29	23.7	8.33	0.26	0.09				
26-Feb-04	895	Effluent	125	29	19.2	7.20	0.21	0.08			191.7	59.8
19-Mar-04	917	Influent	125	29	12.67	3.33	0.14	0.04	2183.52	442.94		
19-Mar-04	917	Intermediate	125	29	20.00	9.00	0.22	0.10				
19-Mar-04	917	Effluent	125	29	13.20	6.80	0.15	0.07			194.9	61.5
27-Apr-04	956	Influent	125	29	11.30	3.33	0.12	0.04	2184.26	443.51		
27-Apr-04	956	Intermediate	125	29	11.00	3.33	0.12	0.04				
27-Apr-04	956	Effluent	125	29	9.60	2.00	0.11	0.02			199.0	62.3
26-May-04	985	Influent	125	29	5.00	3.33	0.06	0.04	2178.25	443.11		
26-May-04	985	Intermediate	125	29	19.70	3.33	0.22	0.04				
26-May-04	985	Effluent	125	29	23.80	4.60	0.26	0.05			206.6	63.8
24-Jun-04	1014	Influent	125	29	11.70	3.33	0.13	0.04	2179.11	443.53		
24-Jun-04	1014	Intermediate	125	29	13.00	3.33	0.14	0.04				
24-Jun-04	1014	Effluent	125	29	9.00	2.00	0.10	0.02			209.5	64.4
6-Jul-04	1026	Influent	125	29	108.00	3.33	1.19	0.04	2191.17	443.71		
6-Jul-04	1026	Intermediate	125	29	23.01	3.33	0.25	0.04				
6-Jul-04	1026	Effluent	125	29	16.80	2.00	0.19	0.02			211.7	64.7
19-Aug-04	1070	Influent	125	29	5.00	3.33	0.06	0.04	2192.14	444.35		
19-Aug-04	1070	Intermediate	125	29	5.00	3.33	0.06	0.04				
19-Aug-04	1070	Effluent	125	29	3.00	2.00	0.03	0.02			213.1	65.7

Table 4
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/ Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ³) ²	Benzene (mg/m ³) ²	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
30-Sep-04	1112	Influent	125	29	10.30	3.33	0.11	0.04	2190.89	444.97		
30-Sep-04	1112	Intermediate	125	29	14.30	3.33	0.16	0.04				
30-Sep-04	1112	Effluent	125	29	13.00	2.00	0.14	0.02			219.2	66.6
28-Oct-04	1140	Influent	125	29	13.30	3.33	0.15	0.04	2186.48	442.48		
28-Oct-04	1140	Intermediate	125	29	37.30	13.70	0.41	0.15				
28-Oct-04	1140	Effluent	125	29	27.60	11.40	0.30	0.13			227.7	70.1
17-Nov-04	1160	Influent	125	29	23.70	7.00	0.26	0.08	2186.54	442.21		
17-Nov-04	1160	Intermediate	125	29	21.00	6.67	0.23	0.07				
17-Nov-04	1160	Effluent	125	29	23.40	8.20	0.26	0.09			232.8	71.9
15-Dec-04	1188	Influent	125	29	84.70	23.30	0.93	0.26	2197.50	445.51		
15-Dec-04	1188	Intermediate	125	29	52.00	15.00	0.57	0.17				
15-Dec-04	1188	Effluent	125	29	49.20	12.60	0.54	0.14			248.0	75.8
12-Jan-05	1216	Influent	125	29	12.30	3.33	0.14	0.04	2200.37	445.92		
12-Jan-05	1216	Intermediate	125	29	5.00	3.33	0.06	0.04				
12-Jan-05	1216	Effluent	125	29	3.00	2.00	0.03	0.02			248.9	76.4
8-Feb-05	1243	Influent	125	29	15.30	4.17	0.17	0.05	2201.05	446.42		
8-Feb-05	1243	Intermediate	125	29	14.00	4.17	0.15	0.05				
8-Feb-05	1243	Effluent	125	29	13.00	2.50	0.14	0.03			252.8	77.2
25-Mar-05	1288	Influent	125	29	5.00	3.33	0.06	0.04	2199.66	447.08		
25-Mar-05	1288	Intermediate	125	29	5.00	3.33	0.06	0.04				
25-Mar-05	1288	Effluent	125	29	7.80	2.00	0.09	0.02			256.7	78.2
6-Apr-05	1300	Influent	125	29	13.00	3.33	0.14	0.04	2200.32	447.26		
6-Apr-05	1300	Intermediate	125	29	11.00	3.33	0.12	0.04				
6-Apr-05	1300	Effluent	125	29	8.00	2.00	0.09	0.02			257.7	78.4
12-May-05	1336	Influent	125	29	5.00	3.33	0.06	0.04	2195.09	445.72		
12-May-05	1336	Intermediate	125	29	16.15	6.50	0.18	0.07				
12-May-05	1336	Effluent	125	29	18.20	7.20	0.20	0.08			265.0	81.3
15-Jun-05	1370	Influent	125	29	5.00	3.33	0.06	0.04	2192.76	446.22		
15-Jun-05	1370	Intermediate	125	29	10.00	3.33	0.11	0.04				
15-Jun-05	1370	Effluent	125	29	11.20	2.00	0.12	0.02			269.2	82.0
6-Jul-05	1391	Influent	125	29	5.00	3.33	0.06	0.04	2193.23	446.53		
6-Jul-05	1391	Intermediate	125	29	5.00	3.33	0.06	0.04				
6-Jul-05	1391	Effluent	125	29	3.00	2.00	0.03	0.02			269.8	82.5
3-Aug-05	1419	Influent	125	29	5.00	3.33	0.06	0.04	2193.84	446.94		
3-Aug-05	1419	Intermediate	125	29	5.00	3.33	0.06	0.04				
3-Aug-05	1419	Effluent	125	29	3.00	2.00	0.03	0.02			270.8	83.1
14-Sep-05	1461	Influent	125	29	5.00	3.33	0.06	0.04	2194.77	447.55		
14-Sep-05	1461	Intermediate	125	29	5.00	3.33	0.06	0.04				
14-Sep-05	1461	Effluent	125	29	3.00	2.00	0.03	0.02			272.2	84.0
12-Oct-05	1489	Influent	125	29	5.00	3.33	0.06	0.04	2194.40	447.96		
12-Oct-05	1489	Intermediate	125	29	5.00	3.33	0.06	0.04				
12-Oct-05	1489	Effluent	125	29	6.20	2.00	0.07	0.02			274.1	84.7
7-Nov-05	1515	Influent	125	29	5.00	3.33	0.06	0.04	2190.79	446.57		
7-Nov-05	1515	Intermediate	125	29	12.00	3.33	0.13	0.04				
7-Nov-05	1515	Effluent	125	29	17.60	8.20	0.19	0.09			279.1	87.0
1-Dec-05	1539	Influent	125	29	5.00	3.33	0.06	0.04	2191.32	446.92		
1-Dec-05	1539	Intermediate	125	29	5.00	3.33	0.06	0.04				
1-Dec-05	1539	Effluent	125	29	3.00	2.00	0.03	0.02			279.9	87.5
5-Jan-06	1574	Influent	125	29	5.00	3.33	0.06	0.04	2192.09	447.43		
5-Jan-06	1574	Intermediate	125	29	5.00	3.33	0.06	0.04				
5-Jan-06	1574	Effluent	125	29	3.00	2.00	0.03	0.02			281.1	88.3
6-Feb-06	1606	Influent	125	29	5.00	3.33	0.06	0.04	2192.09	447.43		
6-Feb-06	1606	Intermediate	125	29	5.00	3.33	0.06	0.04				
6-Feb-06	1606	Effluent	125	29	5.00	3.33	0.06	0.04			282.8	89.5
7-Mar-06	1635	Influent	125	29	8.35	3.33	0.09	0.04	2193.16	447.86		
7-Mar-06	1635	Intermediate	125	29	8.35	3.33	0.09	0.04				
7-Mar-06	1635	Effluent	125	29	5.00	2.00	0.06	0.02			284.4	90.1
11-Apr-06	1670	Influent	125	29	5.00	3.33	0.06	0.04	2192.47	448.37		
11-Apr-06	1670	Intermediate	125	29	11.30	3.33	0.12	0.04				
11-Apr-06	1670	Effluent	125	29	6.80	2.00	0.07	0.02			287.1	90.9
4-May-06	1693	Influent	125	29	12.70	3.33	0.14	0.04	2193.86	448.71		
4-May-06	1693	Intermediate	125	29	11.70	3.33	0.13	0.04				
4-May-06	1693	Effluent	125	29	7.20	2.00	0.08	0.02			288.9	91.4
6-Jun-06	1726	Influent	125	29	5.00	3.33	0.06	0.04	2186.59	446.28		
6-Jun-06	1726	Intermediate	125	29	25.70	8.67	0.28	0.10				
6-Jun-06	1726	Effluent	125	29	25.00	10.00	0.28	0.11			298.0	95.0
12-Jul-06	1762	Influent	125	29	10.70	3.33	0.12	0.04	2182.38	446.28		
12-Jul-06	1762	Intermediate	125	29	12.30	3.33	0.14	0.04				
12-Jul-06	1762	Effluent	125	29	21.30	3.33	0.23	0.04			306.4	96.4
10-Aug-06	1791	Influent	125	29	10.70	3.33	0.12	0.04	2181.33	444.98		
10-Aug-06	1791	Intermediate	125	29	51.70	17.30	0.57	0.19				
10-Aug-06	1791	Effluent	125	29	14.00	7.40	0.15	0.08			310.9	98.7
6-Sep-06	1818	Influent	125	29	5.00	3.33	0.06	0.04	2181.92	445.38		
6-Sep-06	1818	Intermediate	125	29	5.00	3.33	0.06	0.04				
6-Sep-06	1818	Effluent	125	29	3.00	2.00	0.03	0.02			311.8	99.3

(1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.

(2) When a below detection result occurs, the assumed value is half of the detection limit.

For the 1/19/01 sampling, the samples were incorrectly labeled: Drum #1 is influent to Drum #1, Drum #2 is influent to Drum #2, and Air Stripper is Air Effluent.

(3) Daily emission rate based on laboratory results.

(4) Emission rate to date calculated from average daily emission rate and total days of remediation system operation.

Table 5
Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cumulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cumulative Mass of VOCs Removed (lbs.) ³	Cumulative Mass of Benzene Removed (lbs.) ³	Cumulative Mass of VOCs Discharged (lbs.) ⁴	Cumulative Mass of Benzene Discharged (lbs.) ⁴
5-Oct-00	9	Influent ⁵		121,985	60,000				
5-Oct-00	9	Effluent	10,592	12.9	0.94	10.8	5.3	0.00114	0.00008
19-Jan-01	21	Inlet ⁶		859.5	90.4				
19-Jan-01	21	Mid Carbon		17.3	0.62				
19-Jan-01	21	Effluent	17,346	16.6	0.7	17.7	8.7	0.00208	0.00012
30-Mar-01	84	Inlet ⁶		1,120.60	140				
30-Mar-01	84	Effluent	44,613	14.45	0.05	45.6	22.4	0.00520	0.00024
11-Apr-01	96	Influent ⁵		100,629	46,000				
11-Apr-01	96	Inlet ⁶		557.5	110				
11-Apr-01	96	Mid Carbon		50.73	5.1				
11-Apr-01	96	Effluent	54,636	13.79	0.94	54.0	26.3	0.00636	0.00031
17-May-01	110	Effluent	58,967	23.46	1.3	57.6	27.9	0.00721	0.00036
13-Jun-01	125	Effluent	61,094	7.74	0.05	59.4	28.8	0.00735	0.00036
13-Jul-01	135	Influent ⁵		97,450	51,000				
31-Jul-01	135	Effluent	65,758	12.36	0.05	63.2	30.7	0.00783	0.00036
20-Sep-01	157	Influent ⁵		113,925	58,000				
20-Sep-01	157	Inlet ⁶		3,205	1,100				
20-Sep-01	157	Effluent	91,894	19.23	0.05	88.1	43.4	0.01203	0.00038
7-Dec-01	196	Influent ⁵		101,620	52,000				
7-Dec-01	196	Inlet ⁶		4,153.5	530				
7-Dec-01	196	Effluent	136,300	9.835	0.05	125.7	62.7	0.01567	0.00039
14-Feb-02	224	Influent		83,055	35,000				
14-Feb-02	224	Precarbon		35,355.3	7,200				
14-Feb-02	224	Effluent	181,000	8.1	0.2	156.7	75.7	0.01869	0.00047
21-Mar-02	256	Influent		143,140	53,000				
21-Mar-02	256	Precarbon		15,716.5	1,600				
21-Mar-02	256	Effluent	202,700	88.22	67	182.6	85.3	0.03467	0.01264
11-Jun-02	323	Influent		63,570	23,000				
11-Jun-02	323	Precarbon		26,320.0	6,400				
11-Jun-02	323	Effluent	286,524	1,244	1,100	226.2	100.6	0.90481	0.78458
8-Aug-02	393	Influent		87,060	41,000				
8-Aug-02	393	Precarbon		26,320.0	18,695				
8-Aug-02	393	Effluent	402,800	6,554.1	4,000	304.3	136.5	7.26406	4.67835
31-Oct-02	456	Influent		27,090.0	5,600				
31-Oct-02	456	Precarbon		24,362.5	13,000				
31-Oct-02	456	Effluent	502600	2,438.3	1,600	324.9	139.9	9.30128	6.01517
27-Nov-02	470	Influent		52,350.0	22,000				
27-Nov-02	470	Precarbon		15,633.0	7,300				
27-Nov-02	470	Effluent	519000	6,449.5	4,600	331.1	142.2	10.18390	6.64674
18-Dec-02	491	Influent		45,325.0	19,000				
18-Dec-02	491	Precarbon		7,685.0	2,700				
18-Dec-02	491	Effluent	542,800	4,785.0	3,300	339.2	145.4	11.13420	7.30426
30-Jan-03	534	Influent		35,275.0	9,600				
30-Jan-03	534	Precarbon		4,230.0	1,700				
30-Jan-03	534	Effluent	581,400	4,584.7	2,200	349.1	147.7	12.61092	8.01520
19-Feb-03	554	Influent		71,520.0	32,000				
19-Feb-03	554	Precarbon		3,149.0	81				
19-Feb-03	554	Effluent	598,000	4,004.0	1,500	358.4	152.0	13.16556	8.22366
2-Apr-03	580	Influent		20,876.0	6,300				
2-Apr-03	580	Precarbon		1,553.0	120				
2-Apr-03	580	Effluent	623,300	114.7	22	362.8	153.3	13.18977	8.22832
23-Apr-03	596	Influent		30,060.0	9,500				
23-Apr-03	596	Precarbon		2,095.0	29				
23-Apr-03	596	Effluent	645,300	3.0	0.15	368.3	155.0	13.19032	8.22835
21-May-03	619	Influent		25,470.0	6,100				
21-May-03	619	Precarbon		5,491.0	71				
21-May-03	619	Effluent	687,700	3.1	0.15	377.3	157.2	13.19142	8.22840
25-Jun-03	654	Influent		42,650.0	26,000				
25-Jun-03	654	Precarbon		3,310.0	150				
25-Jun-03	654	Effluent	721,000	1.9	0.12	389.2	164.4	13.19195	8.22843
30-Jul-03	684	Influent		8,440.0	1,400				
30-Jul-03	684	Precarbon		144.0	6				
30-Jul-03	684	Effluent	748,800	1.2	0.19	391.1	164.7	13.19224	8.22848
28-Aug-03	713	Influent		10,630.0	2,200				
28-Aug-03	713	Precarbon		434.3	36				
28-Aug-03	713	Effluent	761,700	0.5	0.16	392.3	165.0	13.19229	8.22849
29-Sep-03	745	Influent		18,770	3,400				
29-Sep-03	745	Precarbon		300.1	17				
29-Sep-03	745	Effluent	781,500	0.7	0.12	395.4	165.5	13.19241	8.22851
29-Oct-03	775	Influent		8,730	1,200				
29-Oct-03	775	Precarbon		169.7	3				
29-Oct-03	775	Effluent	793,400	0.3	0.18	396.3	165.7	13.19243	8.22853
19-Nov-03	796	Influent		10,940	2,000				
19-Nov-03	796	Precarbon		529	23				
19-Nov-03	796	Effluent	799,900	3.5	0.71	396.8	165.8	13.19262	8.22857
29-Dec-03	836	Influent		11,710	2,100				
29-Dec-03	836	Precarbon		7,815	2,900				
29-Dec-03	836	Effluent	821,500	0.0	0.12	399.0	166.1	13.19262	8.22859
20-Jan-04	858	Influent		9,021	2,200				
20-Jan-04	858	Precarbon		576	44				
20-Jan-04	858	Effluent	826,300	2.57	0.50	399.3	166.2	13.19273	8.22861
26-Feb-04	895	Influent		21,425	4,900				
26-Feb-04	895	Precarbon		631	38				
26-Feb-04	895	Effluent	854,700	0.49	0.05	404.4	167.4	13.19284	8.22862
15-Mar-04	917	Influent		20,660	4,500				
15-Mar-04	917	Precarbon		673	39				
15-Mar-04	917	Effluent	876,900	0	0.05	408.2	168.2	13.19284	8.22863
27-Apr-04	956	Influent		11,650	3,500				
27-Apr-04	956	Precarbon		430	74				
27-Apr-04	956	Effluent	893,300	0.28	0.09	409.8	168.7	13.19288	8.22865

Table 5
Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cumulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cumulative Mass of VOCs Removed (lbs.) ³	Cumulative Mass of Benzene Removed (lbs.) ³	Cumulative Mass of VOCs Discharged (lbs.) ⁴	Cumulative Mass of Benzene Discharged (lbs.) ⁴
26-May-04	985	Influent		22,300	4,800				
26-May-04	985	Precarbon		500	12				
26-May-04	985	Effluent	914,600	0	0.15	413.8	169.6	13.19288	8.22867
24-Jun-04	1014	Influent		24,040	4,800				
24-Jun-04	1014	Precarbon		627	47				
24-Jun-04	1014	Effluent	953,200	0	0.15	421.5	171.1	13.19288	8.22872
6-Jul-04	1026	Influent		15,530	2,600				
6-Jul-04	1026	Precarbon		153.1	9.8				
6-Jul-04	1026	Effluent	965,100	0.59	0.09	423.1	171.4	13.19294	8.22873
19-Aug-04	1070	Influent		15,060	1,900				
19-Aug-04	1070	Precarbon		82.2	5.2				
19-Aug-04	1070	Effluent	994,600	0.37	0.09	426.8	171.8	13.19303	8.22875
27-Sep-04	1109	Influent		23,520	5,800				
27-Sep-04	1109	Precarbon		645.9	17.0				
27-Sep-04	1109	Effluent	1,028,400	0.29	0.09	433.4	173.5	13.19311	8.22878
28-Oct-04	1140	Influent		21,680	5,000				
28-Oct-04	1140	Precarbon		274.6	26				
28-Oct-04	1140	Effluent	1,057,500	0.64	0.09	438.7	174.7	13.19327	8.22880
17-Nov-04	1160	Influent		29,010	9,600				
17-Nov-04	1160	Precarbon		201.7	14				
17-Nov-04	1160	Effluent	1,069,800	0.00	0.09	441.7	175.7	13.19327	8.22881
15-Dec-04	1188	Influent		22,710	6,200				
15-Dec-04	1188	Precarbon		199.4	21				
15-Dec-04	1188	Effluent	1,090,700	201.1	200	445.6	176.7	13.22834	8.26380
12-Jan-05	1216	Influent		69,060	23,000				
12-Jan-05	1216	Precarbon		11.8	1.9				
12-Jan-05	1216	Effluent	1,112,900	167.5	160	458.3	180.9	13.25937	8.29354
8-Feb-05	1243	Influent		18,930	4,300				
8-Feb-05	1243	Precarbon		211.8	27				
8-Feb-05	1243	Effluent	1,134,700	0.7	0.42	461.8	181.7	13.25950	8.29362
18-Mar-05	1281	Influent		10,710	2,100				
18-Mar-05	1281	Precarbon		926	510				
18-Mar-05	1281	Effluent	1,160,800	1.13	0	464.1	182.2	13.25974	8.29362
6-Apr-05	1300	Influent		7,750	1,200				
6-Apr-05	1300	Precarbon		220.6	18				
6-Apr-05	1300	Effluent	1,175,000	0	0	465.0	182.3	13.25974	8.29362
12-May-05	1336	Influent		5,610	850				
12-May-05	1336	Precarbon		349.4	79				
12-May-05	1336	Effluent	1,191,500	1.0	0	465.8	182.4	13.25988	8.29362
15-Jun-05	1370	Influent		47,000	14,000				
15-Jun-05	1370	Precarbon		21.1	0.95				
15-Jun-05	1370	Effluent	1,200,800	0	0	469.5	183.5	13.25988	8.29362
6-Jul-05	1391	Influent		9,550	2,100				
6-Jul-05	1391	Precarbon		130.8	18				
6-Jul-05	1391	Effluent	1,204,200	0	0	469.7	183.6	13.25988	8.29362
3-Aug-05	1419	Influent		74,740	32,000				
3-Aug-05	1419	Precarbon		70.0	3.0				
3-Aug-05	1419	Effluent	1,215,000	0	0	476.5	186.5	13.25988	8.29362
14-Sep-05	1461	Influent		11,200	1,600				
14-Sep-05	1461	Precarbon		54.1	4.3				
14-Sep-05	1461	Effluent	1,230,300	1	0	477.9	186.7	13.25995	8.29362
11-Oct-05	1488	Influent		5,920	1,200				
11-Oct-05	1488	Precarbon		54.1	7.6				
11-Oct-05	1488	Effluent	1,242,600	1.24	0	478.5	186.8	13.26008	8.29362
7-Nov-05	1515	Influent		16,320	2,000				
7-Nov-05	1515	Precarbon		43,100	19,000				
7-Nov-05	1515	Effluent	1,254,300	0.29	0.29	480.1	187.0	13.26010	8.29365
1-Dec-05	1539	Influent		69,740	28,000				
1-Dec-05	1539	Precarbon		217	55				
1-Dec-05	1539	Effluent	1,265,100	0.28	0	486.4	189.5	13.26013	8.29365
5-Jan-06	1574	Influent		69,710	31,000				
5-Jan-06	1574	Precarbon		132	23				
5-Jan-06	1574	Effluent	1,278,900	0.86	0	494.4	193.1	13.26023	8.29365
6-Feb-06	1606	Influent		14,260	3,200				
6-Feb-06	1606	Precarbon		113	12				
6-Feb-06	1606	Effluent	1,295,400	0.39	0	496.4	193.5	13.26028	8.29365
7-Mar-06	1635	Influent		6,107	710				
7-Mar-06	1635	Precarbon		324	310				
7-Mar-06	1635	Effluent	1,300,500	7.73	0.27	496.6	193.6	13.26061	8.29366
11-Apr-06	1670	Influent		11,760	2,000				
11-Apr-06	1670	Precarbon		280.5	28				
11-Apr-06	1670	Effluent	1,328,300	319.4	290	499.3	194.0	13.33471	8.36115
4-May-06	1693	Influent		53,032	21,000				
4-May-06	1693	Precarbon		349.4	96				
4-May-06	1693	Effluent	1,338,700	3.74	2.7	503.9	195.8	13.33503	8.36139
6-Jun-06	1726	Influent		11,110	1,800				
6-Jun-06	1726	Precarbon		498	34				
6-Jun-06	1726	Effluent	1,361,400	0.4	0	506.0	196.1	13.33511	8.36139
12-Jul-06	1762	Influent		64,080	25,000				
12-Jul-06	1762	Precarbon		4	1.5				
12-Jul-06	1762	Effluent	1,380,300	0.6	0.23	516.1	200.1	13.33520	8.36142
10-Aug-06	1791	Influent		10,760	1,200				
10-Aug-06	1791	Precarbon		1,434	46.0				
10-Aug-06	1791	Effluent	1,406,000	0.8	0	518.4	200.3	13.33537	8.36142
6-Sep-06	1818	Influent		8,860	600				
6-Sep-06	1818	Precarbon		1,039	31.0				
6-Sep-06	1818	Effluent	1,433,400	0.95	0	520.4	200.5	13.33559	8.36142

(1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.

(2) When a below detection result occurs, the assumed value is half of the detection limit.

(3) Removal based on Influent vs. Effluent

(4) Emission rate to date calculated from average concentrations in effluent and total days of remediation system operation.

(5) This sample was collected at the oil-water separator discharge, prior to the air diffuser.

(6) This sample was collected at the inlet to the liquid phase carbon.

Appendix

Interim Treatment System Laboratory Reporting Forms

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034
Printed: 09/21/06 Code: S Page 1 of 1
NLS Project: 101213
NLS Customer: 91206
Fax: 414 831 4101 Phone: 414 831 4100

Client: URS Corporation (Milwaukee)
Attn: Paul Sklar
10200 West Innovation Drive #500
Milwaukee, WI 53226 4827

Project: Xcel Energy - Ashland

Influent NLS ID: 417063

Ref. Line 1 COC 89358 Influent Matrix: GW
Collected: 09/06/06 00:00 Received: 09/07/06

Parameter	Result	Units	Dilution	LOD	LOQ/PAL	Analyzed	Method	Lab
VOCs (water) by EPA Method 8260B	see attached					09/13/06	SW846 8260	721026460

Pre Carbon NLS ID: 417064

Ref. Line 2 COC 89358 Pre Carbon Matrix: GW
Collected: 09/06/06 00:00 Received: 09/07/06

Parameter	Result	Units	Dilution	LOD	LOQ/PAL	Analyzed	Method	Lab
VOCs (water) by EPA Method 8260B	see attached					09/15/06	SW846 8260	721026460

Effluent NLS ID: 417065

Ref. Line 3 COC 89358 Effluent Matrix: GW
Collected: 09/06/06 00:00 Received: 09/07/06

Parameter	Result	Units	Dilution	LOD	LOQ/PAL	Analyzed	Method	Lab
Cadmium, tot. recoverable as Cd by ICP-Trace	ND	ug/L	1	0.17	0.55/.5	09/12/06	SW846 6010	721026460
Chromium, tot. recoverable as Cr by ICP-Trace	ND	ug/L	1	1.0	3.3/10	09/12/06	SW846 6010	721026460
Copper, tot. recoverable as Cu by ICP-Trace	[1.4]	ug/L	1	1.3	4.0/130	09/12/06	SW846 6010	721026460
Lead, tot. recoverable as Pb by ICP-Trace	ND	ug/L	1	1.3	4.1/1.5	09/12/06	SW846 6010	721026460
Mercury, tot. as Hg	ND	ug/L	1	0.025	0.050/.2	09/15/06	245.7M/ 1631M	721026460
Oil and Grease, water (hexane)	ND	mg/L	1	1.1	3.8	09/13/06	EPA 1664	721026460
pH, Lab	7.56	s.u.	1			09/13/06	SW846 9040	721026460
Phosphorus, tot. as P	[0.0070]	mg/L	1	0.0070*		09/08/06	EPA 365.2	721026460
Metals digestion - tot. recov. ICP	yes					09/11/06	SW846 3005M	721026460
VOCs (water) by EPA Method 8260B	see attached					09/14/06	SW846 8260	721026460
GRO (water)	ND	mg/L	1	0.012	0.042	09/12/06	WI MOD GRO	721026460

spike-96%, duplicate-92%, surrogate-88%

DRO (water)	ND	mg/L	1	0.021	0.074	09/15/06	WI MOD DRO	721026460
spike-95%, duplicate-98%, surrogate-86%								

Organics Extraction (DRO)	yes					09/11/06	WI MOD DRO	721026460
PAH (water) by EPA Method 8270C - SIM	see attached					09/15/06	SW846 8270C	721026460
Organics Extraction PAH (water) EPA 8270C - SIM	yes					09/12/06	EPA 8270C	721026460

Trip Blank NLS ID: 417066

Ref. Line COC 89358 Trip Blank Matrix: TB
Collected: 09/06/06 00:00 Received: 09/07/06

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA Method 8260B	see attached					09/14/06	SW846 8260	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L

DWB = Dry Weight Basis

NA = Not Applicable

%DWB = (mg/kg DWB) / 10000

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL or >PAL.

Authorized by:
R. T. Krueger
President

Reviewed by: _____

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Sat 2000R)

Page 1 of 4

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title:

Template: SATRW Printed: 09/21/2006 10:34

Sample: 417063 Influent

Collected: 09/06/06

Analyzed: 09/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	[600]	ug/L	1000	210	730
Bromobenzene	ND	ug/L	1000	230	800
Bromoform	ND	ug/L	1000	240	870
Bromomethane	ND	ug/L	1000	230	830
n-Butylbenzene	ND	ug/L	1000	170	590
sec-Butylbenzene	ND	ug/L	1000	190	660
tert-Butylbenzene	ND	ug/L	1000	190	680
Carbon Tetrachloride	ND	ug/L	1000	190	660
Chlorobenzene	ND	ug/L	1000	220	790
Chloroethane	ND	ug/L	1000	2000	6900
Chloroform	ND	ug/L	1000	200	720
Chloromethane	ND	ug/L	1000	240	840
2-Chlorotoluene	ND	ug/L	1000	200	700
4-Chlorotoluene	ND	ug/L	1000	190	670
Dibromochloromethane	ND	ug/L	1000	240	850
1,2-Dibromo-3-Chloropropane	ND	ug/L	1000	420	1500
1,2-Dibromoethane	ND	ug/L	1000	200	710
Dibromomethane	ND	ug/L	1000	230	800
1,2-Dichlorobenzene	ND	ug/L	1000	200	710
1,3-Dichlorobenzene	ND	ug/L	1000	200	710
1,4-Dichlorobenzene	ND	ug/L	1000	240	850
Dichlorodifluoromethane	ND	ug/L	1000	260	910
1,1-Dichloroethane	ND	ug/L	1000	210	740
1,2-Dichloroethane	ND	ug/L	1000	210	750
1,1-Dichloroethene	ND	ug/L	1000	140	480
cis-1,2-Dichloroethene	ND	ug/L	1000	340	1200
trans-1,2-Dichloroethene	ND	ug/L	1000	210	730
1,2-Dichloropropane	ND	ug/L	1000	240	860
1,3-Dichloropropane	ND	ug/L	1000	220	770
2,2-Dichloropropane	ND	ug/L	1000	190	660
1,1-Dichloropropene	ND	ug/L	1000	400	1400
cis-1,3-Dichloropropene	ND	ug/L	1000	200	700
trans-1,3-Dichloropropene	ND	ug/L	1000	200	720
Ethylbenzene	ND	ug/L	1000	200	700
Hexachlorobutadiene	ND	ug/L	1000	350	1200
Isopropylbenzene	ND	ug/L	1000	190	690
p-Isopropyltoluene	ND	ug/L	1000	200	700
Methylene chloride	ND	ug/L	1000	300	1100
Naphthalene	6200	ug/L	1000	310	1100
n-Propylbenzene	ND	ug/L	1000	170	600
ortho-Xylene	[250]	ug/L	1000	210	750
Styrene	[500]	ug/L	1000	200	710
1,1,1,2-Tetrachloroethane	ND	ug/L	1000	220	770
1,1,2,2-Tetrachloroethane	ND	ug/L	1000	190	660
Tetrachloroethene	ND	ug/L	1000	160	560
Toluene	[590]	ug/L	1000	170	600

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Sat 2000R)

Page 2 of 4

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title:

Template: SATRW Printed: 09/21/2006 10:34

Sample: 417063 Influent

Collected: 09/06/06

Analyzed: 09/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1000	390	1400
1,2,4-Trichlorobenzene	ND	ug/L	1000	370	1300
1,1,1-Trichloroethane	ND	ug/L	1000	190	660
1,1,2-Trichloroethane	ND	ug/L	1000	210	750
Trichloroethene	ND	ug/L	1000	190	660
Trichlorofluoromethane	ND	ug/L	1000	170	590
1,2,3-Trichloropropane	ND	ug/L	1000	240	850
1,2,4-Trimethylbenzene	[260]	ug/L	1000	200	720
1,3,5-Trimethylbenzene	ND	ug/L	1000	200	700
Vinyl chloride	ND	ug/L	1000	170	590
meta,para-Xylene	[460]	ug/L	1000	410	1400
MTBE	ND	ug/L	1000	200	720
Isopropyl Ether	ND	ug/L	1000	200	710
Dibromofluoromethane (SURR**)	94%				
Toluene-d8 (SURR**)	97%				
1-Bromo-4-Fluorobenzene (SURR**)	101%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Sat 2000R)

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Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SATRW Printed: 09/21/2006 10:34

Sample: 417064 Pre Carbon

Collected: 09/06/06 Analyzed: 09/15/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	[31]	ug/L	80	16	58
Bromobenzene	ND	ug/L	80	18	64
Bromoform	ND	ug/L	80	20	69
Bromochloromethane	ND	ug/L	80	19	66
Bromodichloromethane	ND	ug/L	80	13	47
Bromoform	ND	ug/L	80	27	95
Bromomethane	ND	ug/L	80	13	46
n-Butylbenzene	ND	ug/L	80	15	53
sec-Butylbenzene	ND	ug/L	80	15	54
Carbon Tetrachloride	ND	ug/L	80	15	53
Chlorobenzene	ND	ug/L	80	18	63
Chloroethane	ND	ug/L	80	160	550
Chloroform	ND	ug/L	80	16	57
Chloromethane	ND	ug/L	80	19	67
2-Chlorotoluene	ND	ug/L	80	16	56
4-Chlorotoluene	ND	ug/L	80	15	54
Dibromochloromethane	ND	ug/L	80	19	68
1,2-Dibromo-3-Chloropropane	ND	ug/L	80	34	120
1,2-Dibromoethane	ND	ug/L	80	16	57
Dibromomethane	ND	ug/L	80	18	64
1,2-Dichlorobenzene	ND	ug/L	80	16	57
1,3-Dichlorobenzene	ND	ug/L	80	16	56
1,4-Dichlorobenzene	ND	ug/L	80	19	68
Dichlorodifluoromethane	ND	ug/L	80	20	72
1,1-Dichloroethane	ND	ug/L	80	17	59
1,2-Dichloroethane	ND	ug/L	80	17	60
1,1-Dichloroethene	ND	ug/L	80	11	39
cis-1,2-Dichloroethene	ND	ug/L	80	27	96
trans-1,2-Dichloroethene	ND	ug/L	80	16	58
1,2-Dichloropropane	ND	ug/L	80	19	69
1,3-Dichloropropane	ND	ug/L	80	17	62
2,2-Dichloropropane	ND	ug/L	80	15	52
1,1-Dichloropropene	ND	ug/L	80	32	110
cis-1,3-Dichloropropene	ND	ug/L	80	16	56
trans-1,3-Dichloropropene	ND	ug/L	80	16	57
Ethylbenzene	ND	ug/L	80	16	56
Hexachlorobutadiene	ND	ug/L	80	28	99
Isopropylbenzene	ND	ug/L	80	15	55
p-Isopropyltoluene	ND	ug/L	80	16	56
Methylene chloride	ND	ug/L	80	24	86
Naphthalene	970	ug/L	80	25	88
n-Propylbenzene	ND	ug/L	80	14	48
ortho-Xylene	ND	ug/L	80	17	60
Styrene	[17]	ug/L	80	16	57
1,1,1,2-Tetrachloroethane	ND	ug/L	80	17	61
1,1,2,2-Tetrachloroethane	ND	ug/L	80	15	52
Tetrachloroethene	ND	ug/L	80	13	44
Toluene	[21]	ug/L	80	14	48

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Sat 2000R)

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Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SATRW Printed: 09/21/2006 10:34

Sample: 417064 Pre Carbon

Collected: 09/06/06 Analyzed: 09/15/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	80	31	110
1,2,4-Trichlorobenzene	ND	ug/L	80	30	100
1,1,1-Trichloroethane	ND	ug/L	80	15	53
1,1,2-Trichloroethane	ND	ug/L	80	17	60
Trichloroethene	ND	ug/L	80	15	53
Trichlorofluoromethane	ND	ug/L	80	13	47
1,2,3-Trichloropropane	ND	ug/L	80	19	68
1,2,4-Trimethylbenzene	ND	ug/L	80	16	57
1,3,5-Trimethylbenzene	ND	ug/L	80	16	56
Vinyl chloride	ND	ug/L	80	13	47
meta,para-Xylene	ND	ug/L	80	33	120
MTBE	ND	ug/L	80	16	57
Isopropyl Ether	ND	ug/L	80	16	56
Dibromofluoromethane (SURR**)	91%				
Toluene-d8 (SURR**)	96%				
1-Bromo-4-Fluorobenzene (SURR**)	100%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

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Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 09/21/2006 10:34

Sample: 417065 Effluent

Collected: 09/06/06

Analyzed: 09/14/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.20	0.72
Bromobenzene	ND	ug/L	1	0.19	0.68
Bromoform	ND	ug/L	1	0.19	0.66
Bromochloromethane	ND	ug/L	1	0.20	0.71
Bromodichloromethane	ND	ug/L	1	0.16	0.56
Bromoform	ND	ug/L	1	0.11	0.40
Bromomethane	ND	ug/L	1	0.37	1.3
n-Butylbenzene	ND	ug/L	1	0.21	0.75
sec-Butylbenzene	ND	ug/L	1	0.20	0.71
Carbon Tetrachloride	ND	ug/L	1	0.18	0.65
Chlorobenzene	ND	ug/L	1	0.16	0.58
Chloroethane	ND	ug/L	1	0.48	1.7
Chloroform	ND	ug/L	1	0.17	0.60
Chloromethane	ND	ug/L	1	0.14	0.51
2-Chlorotoluene	ND	ug/L	1	0.19	0.68
4-Chlorotoluene	ND	ug/L	1	0.18	0.63
Dibromochloromethane	ND	ug/L	1	0.17	0.61
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.17	0.60
1,2-Dibromoethane	ND	ug/L	1	0.17	0.58
Dibromomethane	ND	ug/L	1	0.19	0.66
1,2-Dichlorobenzene	ND	ug/L	1	0.19	0.68
1,3-Dichlorobenzene	ND	ug/L	1	0.19	0.66
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.61
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73
1,2-Dichloroethane	ND	ug/L	1	0.19	0.68
1,1-Dichloroethene	ND	ug/L	1	0.19	0.68
cis-1,2-Dichloroethene	ND	ug/L	1	0.20	0.72
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60
1,2-Dichloropropane	ND	ug/L	1	0.18	0.64
1,3-Dichloropropane	ND	ug/L	1	0.19	0.66
2,2-Dichloropropane	ND	ug/L	1	0.15	0.52
1,1-Dichloropropene	ND	ug/L	1	0.18	0.64
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.64
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.57
Ethylbenzene	ND	ug/L	1	0.18	0.62
Hexachlorobutadiene	ND	ug/L	1	0.43	1.5
Isopropylbenzene	ND	ug/L	1	0.16	0.58
p-Isopropyltoluene	ND	ug/L	1	0.18	0.65
Methylene chloride	[0.62]	ug/L	1	0.18	0.65
Naphthalene	[0.33]	ug/L	1	0.26	0.92
n-Propylbenzene	ND	ug/L	1	0.19	0.69
ortho-Xylene	ND	ug/L	1	0.16	0.58
Styrene	ND	ug/L	1	0.14	0.48
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.18	0.63
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.18	0.64
Tetrachloroethene	ND	ug/L	1	0.18	0.64
Toluene	ND	ug/L	1	0.18	0.63

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 2 of 4

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 09/21/2006 10:34

Sample: 417065 Effluent

Collected: 09/06/06

Analyzed: 09/14/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.17	0.61
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.52
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.70
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.60
Trichloroethene	ND	ug/L	1	0.21	0.75
Trichlorofluoromethane	ND	ug/L	1	0.34	1.2
1,2,3-Trichloropropane	ND	ug/L	1	0.19	0.66
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.62
1,3,5-Trimethylbenzene	ND	ug/L	1	0.18	0.65
Vinyl chloride	ND	ug/L	1	0.17	0.59
meta,para-Xylene	ND	ug/L	1	0.33	1.2
MTBE	ND	ug/L	1	0.19	0.66
Isopropyl ether	ND	ug/L	1	0.18	0.64
Dibromofluoromethane (SURR**)	87%				
Toluene-d8 (SURR**)	94%				
1-Bromo-4-Fluorobenzene (SURR**)	86%				

Continuing calibration verification standard recovery was outside QC limits for Bromomethane at 55%.

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 3 of 4

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 09/21/2006 10:34

Sample: 417066 Trip Blank

Collected: 09/06/06 Analyzed: 09/14/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.20	0.72
Bromobenzene	ND	ug/L	1	0.19	0.68
Bromoform	ND	ug/L	1	0.19	0.66
Bromochloromethane	ND	ug/L	1	0.20	0.71
Bromodichloromethane	ND	ug/L	1	0.16	0.56
Bromoform	ND	ug/L	1	0.11	0.40
Bromomethane	ND	ug/L	1	0.37	1.3
n-Butylbenzene	ND	ug/L	1	0.21	0.75
sec-Butylbenzene	ND	ug/L	1	0.20	0.71
Carbon Tetrachloride	ND	ug/L	1	0.18	0.65
Chlorobenzene	ND	ug/L	1	0.16	0.58
Chloroethane	ND	ug/L	1	0.48	1.7
Chloroform	ND	ug/L	1	0.17	0.60
Chloromethane	ND	ug/L	1	0.14	0.51
2-Chlorotoluene	ND	ug/L	1	0.19	0.68
4-Chlorotoluene	ND	ug/L	1	0.18	0.63
Dibromochloromethane	ND	ug/L	1	0.17	0.61
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.17	0.60
1,2-Dibromoethane	ND	ug/L	1	0.17	0.58
Dibromomethane	ND	ug/L	1	0.19	0.66
1,2-Dichlorobenzene	ND	ug/L	1	0.19	0.68
1,3-Dichlorobenzene	ND	ug/L	1	0.19	0.66
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.61
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73
1,2-Dichloroethane	ND	ug/L	1	0.19	0.68
1,1-Dichloroethene	ND	ug/L	1	0.19	0.68
cis-1,2-Dichloroethene	ND	ug/L	1	0.20	0.72
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60
1,2-Dichloropropane	ND	ug/L	1	0.18	0.64
1,3-Dichloropropane	ND	ug/L	1	0.19	0.66
2,2-Dichloropropane	ND	ug/L	1	0.15	0.52
1,1-Dichloropropene	ND	ug/L	1	0.18	0.64
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.64
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.57
Ethylbenzene	ND	ug/L	1	0.18	0.62
Hexachlorobutadiene	ND	ug/L	1	0.43	1.5
Isopropylbenzene	ND	ug/L	1	0.16	0.58
p-Isopropyltoluene	ND	ug/L	1	0.18	0.65
Methylene chloride	1.7	ug/L	1	0.18	0.65
Naphthalene	ND	ug/L	1	0.26	0.92
n-Propylbenzene	ND	ug/L	1	0.19	0.69
ortho-Xylene	ND	ug/L	1	0.16	0.58
Styrene	ND	ug/L	1	0.14	0.48
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.18	0.63
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.18	0.64
Tetrachloroethene	ND	ug/L	1	0.18	0.64
Toluene	ND	ug/L	1	0.18	0.63

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 4 of 4

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 09/21/2006 10:34

Sample: 417066 Trip Blank

Collected: 09/06/06 Analyzed: 09/14/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.17	0.61
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.52
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.70
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.60
Trichloroethene	ND	ug/L	1	0.21	0.75
Trichlorofluoromethane	ND	ug/L	1	0.34	1.2
1,2,3-Trichloropropane	ND	ug/L	1	0.19	0.66
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.62
1,3,5-Trimethylbenzene	ND	ug/L	1	0.18	0.65
Vinyl chloride	ND	ug/L	1	0.17	0.59
meta,para-Xylene	ND	ug/L	1	0.33	1.2
MTBE	ND	ug/L	1	0.19	0.66
Isopropyl ether	ND	ug/L	1	0.18	0.64
Dibromofluoromethane (SURR**)	98%				
Toluene-d8 (SURR**)	104%				
1-Bromo-4-Fluorobenzene (SURR**)	97%				

Continuing calibration verification standard recovery was outside QC limits for Bromomethane at 55%.

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C SIM

Page 1 of 1

Customer: URS Corporation (Milwaukee) NLS Project: 101213

Project Description: Xcel Energy - Ashland

Project Title:

Template: 8270PAHW Printed: 09/21/2006 10:34

Sample: 417065 Effluent

Collected: 09/06/06

Analyzed: 09/15/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/L	1	0.027	0.090
Acenaphthylene	[0.040]	ug/L	1	0.027	0.090
Anthracene	ND	ug/L	1	0.023	0.078
Benzo (a) anthracene	[0.043]	ug/L	1	0.027	0.091
Benzo (a) pyrene	[0.045]	ug/L	1	0.018	0.056
Benzo (b) fluoranthene	[0.042]	ug/L	1	0.027	0.089
Benzo (g,h,i) perylene	[0.029]	ug/L	1	0.029	0.098
Benzo (k) fluoranthene	ND	ug/L	1	0.034	0.12
Chrysene	[0.028]	ug/L	1	0.027	0.091
Dibenzo (a,h) anthracene	ND	ug/L	1	0.033	0.11
Fluoranthene	ND	ug/L	1	0.027	0.089
Fluorene	ND	ug/L	1	0.026	0.085
Indeno (1,2,3-cd) pyrene	ND	ug/L	1	0.034	0.11
Methyl-1-Naphthalene	[0.060]	ug/L	1	0.021	0.071
Methyl-2-Naphthalene	ND	ug/L	1	0.024	0.079
Naphthalene	ND	ug/L	1	0.023	0.077
Phenanthrene	[0.028]	ug/L	1	0.024	0.079
Pyrene	[0.035]	ug/L	1	0.025	0.084
2-Fluorobiphenyl (SURR**)	65%				
Nitrobenzene-d5 (SURR**)	61%				
Terphenyl-d14 (SURR**)	40%				

** Surrogates are used to evaluate a method's Quality Control.

September 25, 2006

Client:

URS CORPORATION - MILWAUKEE
10200 Innovation Drive Suite 500
Milwaukee, WI 53226

Attn: Paul Sklar

Work Order: CPI0496
Project Name: Xcel Energy - Ashland
Project Number: Air Samples

Date Received: 09/11/06

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Air Stripper	CPI0496-01	09/06/06
1st Stage Carbon	CPI0496-02	09/06/06
Air Effluent	CPI0496-03	09/06/06

Case Narrative: Total Hydrocarbons quantified as Gasoline.

Illinois Certification Number: 200024

Field blanks are not used in sample correction unless noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



Michael K. McGee, CIH - Laboratory Director

AIHA Lab Certification Number: #101044

TestAmerica - Cedar Falls, IA

Brian C. Graettinger

Project Manager

URS CORPORATION - MILWAUKEE
10200 Innovation Drive Suite 500
Milwaukee, WI 53226
Paul Sklar

Work Order: CPI0496
Project: Xcel Energy - Ashland
Project Number: Air Samples

Received: 09/11/06
Reported: 09/25/06 14:58

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Date Analyzed	Analyst	Method	Quant. Limit
Sample ID: CPI0496-01 (Air Stripper)						
Benzene	<20.0ug/tube	<6.67 mg/m3	<2.09 ppm	9/19/2006	ljm	NIOSH 1501
Ethylbenzene	<20.0ug/tube	<6.67 mg/m3	<1.54 ppm	9/19/2006	ljm	NIOSH 1501
Hydrocarbons, Total	<30.0ug/tube	<10 mg/m3	--- ppm	9/21/2006	ljm	NIOSH 1550
Toluene	<20.0ug/tube	<6.67 mg/m3	<1.77 ppm	9/19/2006	ljm	NIOSH 1501
Xylenes, total	<30.0ug/tube	<10 mg/m3	<2.3 ppm	9/19/2006	ljm	NIOSH 1501
Sample ID: CPI0496-02 (1st Stage Carbon)						
Benzene	<20.0ug/tube	<6.67 mg/m3	<2.09 ppm	9/19/2006	ljm	NIOSH 1501
Ethylbenzene	<20.0ug/tube	<6.67 mg/m3	<1.54 ppm	9/19/2006	ljm	NIOSH 1501
Hydrocarbons, Total	<30.0ug/tube	<10 mg/m3	--- ppm	9/21/2006	ljm	NIOSH 1550
Toluene	<20.0ug/tube	<6.67 mg/m3	<1.77 ppm	9/19/2006	ljm	NIOSH 1501
Xylenes, total	<30.0ug/tube	<10 mg/m3	<2.3 ppm	9/19/2006	ljm	NIOSH 1501
Sample ID: CPI0496-03 (Air Effluent)						
Benzene	<20.0ug/tube	<4 mg/m3	<1.25 ppm	9/19/2006	ljm	NIOSH 1501
Ethylbenzene	<20.0ug/tube	<4 mg/m3	<0.92 ppm	9/19/2006	ljm	NIOSH 1501
Hydrocarbons, Total	<30.0ug/tube	<6 mg/m3	--- ppm	9/21/2006	ljm	NIOSH 1550
Toluene	<20.0ug/tube	<4 mg/m3	<1.06 ppm	9/19/2006	ljm	NIOSH 1501
Xylenes, total	<30.0ug/tube	<6 mg/m3	<1.38 ppm	9/19/2006	ljm	NIOSH 1501

TestAmerica

INCORPORATED

Cedar Falls Division Ph: 1-800-750-2401
704 Enterprise Drive or (319) 277-2401
Cedar Falls, IA 50613 Fax: (319) 277-2425

LABORATORY REQUEST FORM

Send Report To: PAUL SKLAR

Send Invoice To: " " "

Company: URS

Address: 10200 University Dr. Suite 500

Address: 1000 University St., Suite 500
Phone: (206) 467-1111

City, State, Zip: Milwaukee, WI 53204

Phone: 414-831-4156 Fax: 414-831-4101 Email Address: _____

Date Results Required: _____

Rush Charges Authorized: **YES** **NO**

Fax or Email Results: YES NO

Date Results Required: _____
Rush Charges Authorized: YES NO
Fax or Email Results: YES NO

City, State, Zip: Milwaukee, Wisc. 53226
Phone: 414-831-4156 Fax: 414-831-4101 Email Address: _____

Project Name: Xcel Energy - Ashland

Project No.:

P.O. Number:

CHAIN OF CUSTODY

Collected by: (Print) <u>Mark Douglas CEC</u>	Date/Time:	Method of Shipment: <u>USPS</u>	Date/Time:
Relinquished by: <u>Mark Douglas</u>	<u>9/6 PM</u>	Received by:	
Relinquished by:		Received for TestAmerica by:	

Laboratory Use Only:

Comments:

Date/Time:

Collected by: (Print) *Mark Douglas*
Relinquished by: *Mark Douglas*

~~Date/time:~~
9/6 pm

Received by:

Relinquished by:

Received by:

Laboratory Us

Received for TestAmerica by:

Laboratory Use Only:	Comments:
-----------------------------	------------------

Distribution: WHITE – Laboratory Copy YELLOW – Customer Copy

TestAmerica - Cedar Falls Division
IH Sample Receipt Form

Client: Coleman Eng. Project: _____

City: _____

Date: 9/11/06 Receiver's Initials hj

Time (if Applicable): 1300

COC Completed Correctly? Yes No

(Cite inconsistencies below)

Sample Checklist (Check indicates conformance failure)

	Received Broken	Information Missing
	Improper Media	Missing Sample
	Missing Label	Sample Past Hold Date
	Temperature	Extra Sample
	COC Discrepancy	Insufficient Sample Volume
	Other:	

Reviewed By SLD Date 9/11/06

Couriers

<input type="checkbox"/>	Airborne	<input type="checkbox"/>	Speedy
<input type="checkbox"/>	UPS	<input type="checkbox"/>	TA Courier
<input type="checkbox"/>	Velocity	<input type="checkbox"/>	TA Field Svcs
<input type="checkbox"/>	FedEx	<input type="checkbox"/>	Client
<input type="checkbox"/>	DHL	<input type="checkbox"/>	Other
<input checked="" type="checkbox"/>	US Postal	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Samples Not Received in a Cooler			
<input checked="" type="checkbox"/> Temperature Not Taken			

Comments ok

Remarks/Action Taken:

Initials/Date:

Log-In by:

CW MF EM

OT: _____